RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/538,038A**

DATE: 09/12/2003
TIME: 07:02:51

Input Set : **A:\4051-us.app**
Output Set: **N:\CRF4\09122003\I538038A.raw**

```
 3  <110> APPLICANT: Beasley, James
 4         Blume, Arthur J.
 5         Schaffer, Lauge
 6         Pillutla, Renuka
 7         Brandt, Jakob
 8         Brissette, Renee
 9         Spetzler, Jane
10         Cheng, Weiqing
11         Ostergaard, Soren.
12         Mandecki, Wlodek S.
13         Hansen, Per Hertz
14         Ravera, Mark
15         Hsiao, Ku-chuan
17  <120> TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
19  <130> FILE REFERENCE: 1878-4051
21  <140> CURRENT APPLICATION NUMBER: 09/538,038A
22  <141> CURRENT FILING DATE: 2000-03-29
24  <160> NUMBER OF SEQ ID NOS: 2653
26  <170> SOFTWARE: PatentIn Ver. 2.1
28  <210> SEQ ID NO: 1
29  <211> LENGTH: 40
30  <212> TYPE: PRT
31  <213> ORGANISM: Artificial Sequence
33  <220> FEATURE:
34  <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
35         peptide
37  <400> SEQUENCE: 1
38  Ile Arg Asp Met His Tyr Val Trp Val Gln Asp Arg Asp Arg Tyr Ile
39   1               5                   10                  15
41  Asn Gly Val Arg Gln Trp Tyr Ile Ser Asp Arg Tyr Asn Pro Gly Ser
42                  20                  25                  30
44  Ala Phe Tyr Arg Trp Phe Ile Asp
45          35                  40
48  <210> SEQ ID NO: 2
49  <211> LENGTH: 40
50  <212> TYPE: PRT
51  <213> ORGANISM: Artificial Sequence
53  <220> FEATURE:
54  <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
55         peptide
57  <400> SEQUENCE: 2
58  Arg Met Gly Leu Gln Ala Leu Ala His Tyr Arg Lys Ser Ala Gly Pro
59   1               5                   10                  15
```

```
61 Ile Phe Leu Ser Ser Gly Ser Val Ile Lys Gly Ser Glu Gly Asp Pro
62              20                 25                 30
64 Phe Tyr Ala Trp Phe Arg Leu Gln
65           35                  40
68 <210> SEQ ID NO: 3  ·
69 <211> LENGTH: 40
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
75       peptide
77 <400> SEQUENCE: 3
78 Met Pro Val Ser Leu Phe Arg Arg Val Trp Asp Tyr Arg Asp Gly Glu
79   1            5                 10                 15
81 His Glu Thr Leu Glu Ser His Tyr Val Val Pro Gln Ala Ala Leu Asp
82              20                 25.                30
84 Arg Leu Phe Tyr Ser Trp Phe Ser
85           35                  40
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 40
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
95       peptide
97 <400> SEQUENCE: 4
98 Pro Leu Tyr Gly Gly Gly Ile His Leu Tyr Tyr Pro Gly Thr Met Gly
99   1            5                 10  ·              15
101 Tyr Val Pro Gly Phe Pro Arg Gln Val Lys Val Leu Gly Asp Ala Asp
102              20                 25                 30
104 Lys Asn Phe Tyr Asp Trp Phe Met
105           35                  40
108 <210> SEQ ID NO: 5
109 <211> LENGTH: 39
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
115       peptide
117 <400> SEQUENCE: 5
118 Tyr Arg Gly Met Leu Val Leu Gly Arg Ile Ser Asp Gly Ala Gly Lys
119   1            5                 10                 15
121 Val Ala Ser Glu Pro Pro Ala Arg Ile Gly Gln Lys Val Phe Ala Val
122              20                 25                 30
124 Asn Phe Tyr Asp Trp Phe Val
125           35
128 <210> SEQ ID NO: 6
129 <211> LENGTH: 39
130 <212> TYPE: PRT
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```
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
135       peptide
137 <400> SEQUENCE: 6
138 Ser Gly Cys Cys Arg Leu Leu Gly Leu Arg Trp Met Phe Ile Val Ile
139  1               5                  10                  15
141 Val Gly Trp Ser Gly Ala Leu Val Cys Gln Ser Ala Ala Ser Ala Ala
142             20                  25                  30
144 Gly Phe Tyr Asp Trp Phe Val
145         35
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 21
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
155       peptide
157 <400> SEQUENCE: 7
158 Ile Gly Gly Gln Gly Gln His Gln Asp Gly Asn Phe Tyr Asp Trp Phe
159  1               5                  10                  15
161 Val Glu Ala Leu Ala
162             20
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 20
167 <212> TYPE: PRT
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
172       peptide
174 <400> SEQUENCE: 8
175 Val Phe Trp Asn Cys Arg Ser Gln Gln Leu Asp Phe Tyr Glu Trp Phe
176  1               5                  10                  15
178 Glu Gln Ala Ala
179             20
182 <210> SEQ ID NO: 9
183 <211> LENGTH: 26
184 <212> TYPE: PRT
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
189       peptide
191 <400> SEQUENCE: 9
192 Arg Val Ala Gly Ala Ile Ser Ala Pro Gly Leu Val Ser Asn Lys Gln
193  1               5                  10                  15
195 Asp Gly Leu Phe Tyr Ser Trp Phe Arg Glu
196             20                  25
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 20
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```
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
206       peptide
208 <400> SEQUENCE: 10
209 Val Leu Gln Ala Arg His Gly Cys Asp Ser Val Ser Asp Cys Phe Tyr
210   1               5                  10                  15
212 Glu Trp Phe Ala
213             20
216 <210> SEQ ID NO: 11
217 <211> LENGTH: 20
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
223       peptide
225 <400> SEQUENCE: 11
226 Gly Ala Phe Tyr Arg Trp Phe His Glu Ala Leu Val Gly Ser Glu Arg
227   1               5                  10                  15
229 Val Pro Asp Val
230             20
233 <210> SEQ ID NO: 12
234 <211> LENGTH: 20
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
240       peptide
242 <400> SEQUENCE: 12
243 His Glu Ala Phe Tyr Asp Trp Phe Ser Ala Leu Val Asp Gly Gly Tyr
244   1               5                  10                  15
246 Glu Leu Met Gly
247             20
250 <210> SEQ ID NO: 13
251 <211> LENGTH: 20
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
257       peptide
259 <400> SEQUENCE: 13
260 Arg Ile Gly Gly Gly Trp Ala Arg Ser Glu Gly Phe Tyr Glu Trp Phe
261   1               5                  10                  15
263 Val Arg Glu Leu
264             20
267 <210> SEQ ID NO: 14
268 <211> LENGTH: 20
269 <212> TYPE: PRT
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```
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
274      peptide
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Xaa represents a variable or unknown amino acid
279 <400> SEQUENCE: 14
```
W--> `280 Leu Pro Ala Gly Gly Ala Xaa Gly Phe Ala Xaa Arg Gly Phe Tyr Glu`
```
281   1           5               10              15
283 Trp Phe Glu Ser
284             20
287 <210> SEQ ID NO: 15
288 <211> LENGTH: 20
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
294      peptide
296 <400> SEQUENCE: 15
297 Gly His Ser Trp Ala Leu Val Arg His Val Asp Arg Leu Phe Tyr Glu
298   1           5               10              15
300 Trp Phe Asp Leu
301             20
304 <210> SEQ ID NO: 16
305 <211> LENGTH: 20
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
311      peptide
313 <400> SEQUENCE: 16
314 Leu Gly Thr Ser Ala Gly Gln Gly Val Gly His Arg Ala Phe Tyr Gln
315   1           5               10              15
317 Trp Phe Gln Ser
318             20
321 <210> SEQ ID NO: 17
322 <211> LENGTH: 20
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
328      peptide
330 <400> SEQUENCE: 17
331 Arg Gly Gly Gly Thr Phe Tyr Glu Trp Phe Glu Ser Ala Leu Arg Lys
332   1           5               10              15
334 His Gly Ala Gly
335             20
338 <210> SEQ ID NO: 18
339 <211> LENGTH: 20
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/12/2003
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:14;  Xaa Pos. 7,11
Seq#:34;  Xaa Pos. 1,2,3,4,5,6,7,8,9,10,18,19,20,21
Seq#:117; Xaa Pos. 1
Seq#:215; Xaa Pos. 16
Seq#:243; Xaa Pos. 16
Seq#:285; Xaa Pos. 12
Seq#:305; Xaa Pos. 12
Seq#:343; Xaa Pos. 1,2,3,4,5,6,21,22,23,24,25,26
Seq#:468; Xaa Pos. 1,2,3,4,5,6,9,10,13,16,17,18,19,20,21
Seq#:470; Xaa Pos. 19
Seq#:582; Xaa Pos. 14
Seq#:719; Xaa Pos. 20
Seq#:753; Xaa Pos. 7,13,27
Seq#:755; Xaa Pos. 9
Seq#:758; Xaa Pos. 21
Seq#:761; Xaa Pos. 2
Seq#:763; Xaa Pos. 30
Seq#:765; Xaa Pos. 1
Seq#:768; Xaa Pos. 9
Seq#:769; Xaa Pos. 2
Seq#:773; Xaa Pos. 21
Seq#:776; Xaa Pos. 2
Seq#:777; Xaa Pos. 33
Seq#:778; Xaa Pos. 3,20,36
Seq#:779; Xaa Pos. 4,12
Seq#:790; Xaa Pos. 21
Seq#:791; Xaa Pos. 24
Seq#:794; Xaa Pos. 29
Seq#:797; Xaa Pos. 24
Seq#:801; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,24,25,26,27
Seq#:828; Xaa Pos. 6
Seq#:863; Xaa Pos. 8
Seq#:888; Xaa Pos. 8
Seq#:892; Xaa Pos. 25
Seq#:894; Xaa Pos. 8
Seq#:896; Xaa Pos. 13
Seq#:899; Xaa Pos. 21
Seq#:900; Xaa Pos. 7,8,9,11
Seq#:911; Xaa Pos. 25
Seq#:915; Xaa Pos. 25
Seq#:925; Xaa Pos. 4
Seq#:933; Xaa Pos. 25
Seq#:938; Xaa Pos. 16
Seq#:947; Xaa Pos. 12
```

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Input Set : **A:\4051-us.app**
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Seq#:949; Xaa Pos. 3
Seq#:950; Xaa Pos. 3
Seq#:954; Xaa Pos. 12
Seq#:960; Xaa Pos. 3
Seq#:961; Xaa Pos. 12
Seq#:962; Xaa Pos. 12
Seq#:966; Xaa Pos. 12

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Input Set : **A:\4051-us.app**
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L:280 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:14
L:280 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:14
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:620 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:34
L:620 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:34
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
M:341 Repeated in SeqNo=34
L:2034 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:117
L:2034 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:117
L:2034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
L:3847 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:215
L:3847 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:215
L:3847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0
L:4410 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:243
L:4410 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:243
L:4410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0
L:5013 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:285
L:5013 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:285
L:5013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0
L:5296 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:305
L:5296 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:305
L:5296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305 after pos.:0
L:5831 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:343
L:5831 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:343
L:5831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:343 after pos.:0
M:341 Repeated in SeqNo=343
L:7959 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:468
L:7959 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:468
L:7959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:468 after pos.:0
M:341 Repeated in SeqNo=468
L:7999 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:470
L:7999 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:470
L:7999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:470 after pos.:16
L:9903 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:582
L:9903 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:582
L:9903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:582 after pos.:0
L:12256 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:719
L:12256 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:719
L:12256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:719 after pos.:16
L:12843 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:753
L:12843 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:753
L:12843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:753 after pos.:0
M:341 Repeated in SeqNo=753
L:12886 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:755
L:12886 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:755
L:12886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:755 after pos.:0
L:12952 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:758
L:12952 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:758

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```
L:12952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:758 after pos.:16
L:13012 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:761
L:13012 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:761
L:13012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:761 after pos.:0
L:13058 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:763
L:13058 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:763
L:13058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:763 after pos.:16
L:13098 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:765
L:13098 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:765
L:13098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:765 after pos.:0
L:13161 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:768
L:13161 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:768
L:13161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:768 after pos.:0
L:13184 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:769
L:13184 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:769
L:13184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:769 after pos.:0
L:13267 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:773
L:13267 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:773
L:13267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:773 after pos.:16
L:13327 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:776
L:13327 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:776
L:13327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:776 after pos.:0
L:13356 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:777
L:13356 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:777
L:13356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:777 after pos.:32
L:13373 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:778
L:13373 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:778
L:13373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:778 after pos.:0
M:341 Repeated in SeqNo=778
L:13396 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:779
L:13396 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:779
L:13396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:779 after pos.:0
L:13622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:790 after pos.:16
L:13645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:791 after pos.:16
L:13708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:794 after pos.:16
L:13771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:16
L:13851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:801 after pos.:0
M:341 Repeated in SeqNo=801
L:14313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:828 after pos.:0
L:14911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:863 after pos.:0
L:15339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:888 after pos.:0
L:15413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:892 after pos.:16
L:15447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:894 after pos.:0
L:15484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:896 after pos.:0
L:15541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:899 after pos.:16
L:15558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:900 after pos.:0
L:15751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:911 after pos.:16
L:15822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:915 after pos.:16
L:15992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:925 after pos.:0
```

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L:16134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:933 after pos.:16
L:16219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:938 after pos.:0
L:16375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:947 after pos.:0